Vol. 137 INTERNATIONAL JOURNAL OF MASS SPECTROMETRY AND ION PROCESSES October 6, 1994

CONTENTS

(Abstracts/contents in: Chem. Abstr.; Curr. Contents, Phys. Chem. Earth Sci.; Excerpta Medica; INSPEC; Mass Spectrom. Bull.; PASCAL/CNRS)

Numerical solution of Laplace's equation for axially symmetric regions with a discontinuous linear boundary
S.A. Rygal, M.E. Beschetnov, V.V. Kuraev and A.A. Knysh (Sumy, Ukraine) 1

A two-electrode ion trap for Fourier transform ion cyclotron resonance mass spectrometry
J.A. Marto, A.G. Marshall (Columbus, OH, USA) and L. Schweikhard (Mainz, Germany) 9

Molecular orbital study of resonance electron capture by 3-substituted aliphatic acids and their methyl esters
V.G. Voinov, N.E. Petrachenko, V.E. Dorofeyev (Vladivostok, Russia), H. Nakamatsu and T. Mukoyama (Kyoto, Japan) . 31

Gas-phase reactions of chloro- and bromoanisoles with methyl- and dimethylamine via radical cations
D. Thölmann, S. Hamann and H.F. Grützmacher (Bielefeld, Germany) 43

Simultaneous ion detection mass spectrometer for the measurement of stratospheric trace gases
C. Rytz (Dubendorf, Switzerland), E. Kopp and P. Eberhardt (Berne, Switzerland) 55

Gas phase substitution reactions by radical cations. Part 4. Methylene transfer by the C–C ring-opened oxirane radical cation to chlorobenzene; product ion analysis
C.G. de Koster, J.J. van Houte and J. van Thuijl (Leiden, Netherlands) 67

Measured and calculated absolute total cross-sections for the single ionization of CF_x and NF_x by electron impact
H. Deutsch (Greifswald, Germany), T.D. Märk (Innsbruck, Austria), V. Tarnovsky, K. Becker (New York, NY, USA), C. Cornelissen, L. Cespiva and V. Bonacic-Koutecky (Berlin, Germany) 77

A photoionization and molecular orbital study of cyclobutanol and cyclobutylamine radical cations
G. Bouchoux (Palaiseau, France), C. Alcaraz, O. Dutuit (Orsay, France) and M.T. Nguyen (Leuven, Belgium) 93

The gas phase ion/molecule chemistry of the carbon-13 labeled ketenyl and methyl ketenyl anions with CS_2, COS, and CO_2
M.S. Robinson, G.E. Davico, V.M. Bierbaum and C.H. DePuy (Boulder, CO, USA) 107

Low-energy collision-induced dissociation of deprotonated dinucleotides: determination of the energetically favored dissociation pathways and the relative acidities of the nucleic acid bases
M.T. Rodgers, S. Campbell, E.M. Marzluff and J.L. Beauchamp (Pasadena, CA, USA) 121

Coumarin laser dyes as matrices for matrix assisted UV laser desorption/ionization mass spectrometry
I.K. Perera, S. Kantartzoglou and P.E. Dyer (Hull, UK) 151

Author Index 173

Subject Index 175

Letter

Laser produced ions stored in a cylindrical ion trap and detected in a cylindrical ion trap and detected in a reflectron time-of-flight mass spectrometer
T.L. Grebner and H.J. Neusser (Garching, Germany) L1